Notice of Allowability	10/661,874 Examiner	TONG ET AL		
Notice of Allowability		TONG ET AL.		
	-xa	Art Unit		
	Gregory C. Issing	3662		
The MAILING DATE of this communication comm	Oregory O. Issuing	3002	<u> </u>	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. This communication is responsive to				
2. 🔀 The allowed claim(s) is/are <u>1-15</u> .				
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 				
 Certified copies of the priority documents have been received. 				
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a) I including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the drawing header according to 37 CFR 1.121(c	igs in the front (not the	e back) of	
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 				
Attachment(s)				
1. Notice of References Cited (PTO-892)		tice of Informal Patent Application (PTO-152)		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. [_] Interview Summary Paper No./Mail Date	 Interview Summary (PTO-413), Paper No./Mail Date 		
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 6/17/04 → 9/11/03), 7. Examiner's Amenda	7. Examiner's Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material Output Description: 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	8. 🗹 Examiner's Stateme	Statement of Reasons for Allowance		
	9.			
U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05) / Noti	ce of Allowability	Part of Page- No. (6	Mail Date 20050831	

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1. The following is an examiner's statement of reasons for allowance: the Examiner has not found any prior art that would render obvious the claimed system and method including an array weight generator that generates array weights based on virtual signals, which are based on the spatial signature of interference signals to be cancelled, and spatial signatures of desired signals.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sano (6,882,681) discloses a spread spectrum receiver capable of detecting and canceling multipath waves. Hiramatsu (6,498,928) discloses a receiver including a combiner 121 for combining weighted signals wherein the weights are derived after determining the channel with the largest received signal from among a plurality of delay profiles generated by suppressing interference. Kobayaka et al (6,064,338) disclose a base station antenna array receiver including a searcher 3, adaptive weight controller 4, weighting and combining means 5. Tanaka (2003/0003890) disclose a receiving method and receiver that continues to carry out weight calculations with stability and without erroneous convergence even in a communication environment where desired and interference waves come from nearly the same direction. Tanaka et al (6,493,379) disclose an antenna receiver that estimates direction of arrival information in generating the weights for the beamformer.
- 3. Tong et al (2004/0013094) is a related application of the applicants.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory C. Issing whose telephone number is (571)-272-6973. The examiner can normally be reached on Monday - Thursday 6:00 AM- 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on (571)-272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gregory C. Issing Primary Examiner Art Unit 3662

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